

What is claimed is:

1. A portable data storage device, comprising:

5 a universal serial bus (USB) connector;

a volatile memory for read and write and store data;

10 a control chip connected between said USB connector
and said volatile memory to serve as a transmission
interface between said portable data storage and
an external electronic apparatus;

15 a charging battery for providing power needed by
said volatile memory to store data; and

a battery charging circuit connected between said
USB connector and said charging battery for charging
said charging battery.

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2. The portable data storage device as claimed in claim
1, wherein said USB connector comprises a USB version
2.0.

25 3. The portable data storage device as claimed in claim
1, wherein said volatile memory comprises a dynamic

random access memory (DRAM).

4. The portable data storage device as claimed in claim
1, wherein said volatile memory comprises a
5 synchronous dynamic random access memory (SDRAM).

5. The portable data storage device as claimed in claim
1, wherein said control chip includes a USB serial
interface engine, a micro processing unit, a
10 firmware unit, a program RAM, and a RAM memory module.

6. The portable data storage device as claimed in claim
1, wherein said external electronic apparatus is
selected from the group consisting of computer,
15 digital camera, digital video camera, mobile phone,
personal digital assistant, printer, and electronic
calculator.

7. The portable data storage device as claimed in claim
20 1, wherein said charging battery is charged using
power from said external electronic apparatus via
said USB connector and said charging circuit.